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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-GV-PMC-2014-15

Date: 30.05.2014

Aggregate Impact Value

IS: 2386 Part IV

Client	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency	**Sri.G.Vasu,** Contractor, Bangalore.
Name of the Work	Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.
Reference	EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014
Location	At Site
Type of Mix	Wet Mix macadam
Date of Testing	30.05.2014

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	374	382	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	289	296	298	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	22.73	22.51	22.80	22.68

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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Job No.: CECTC-GV-PMC-2014-15

Date : 30.05.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri.G.Vasu,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014

Date of Testing : 30.05.2014

Material Type : Wet Mix Macadam

Sample Location : At Site

Oven Dry Wt (gm): **13353**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	440	440	3.3	96.7	95-100
22.4	4698	5138	38.5	61.5	60-80
11.2	2315	7453	55.8	44.2	40-60
4.75	1780	9233	69.1	30.9	25-40
2.36	1565	10798	80.9	19.1	15-30
0.600	1365	12163	91.1	8.9	8-22
0.075	880	13043	97.7	2.3	0-5

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Job No.: CECTC-GV-PMC-2014-15 Date : 30.05.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri.G.Vasu,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014

Date of Testing : 30.05.2014

Material Type : Wet Mix Macadam

Sample Location : At Site Oven Dry Wt (gm): **13262**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	460	460	3.5	96.5	95-100
22.4	4615	5075	38.3	61.7	60-80
11.2	2265	7340	55.3	44.7	40-60
4.75	1874	9214	69.5	30.5	25-40
2.36	1532	10746	81.0	19.0	15-30
0.600	1326	12072	91.0	9.0	8-22
0.075	880	12952	97.7	2.3	0-5

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Job No.:CECTC-GV-PMC-2014-15

Date: 30.05.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency	**Sri.G.Vasu,** Contractor, Bangalore.
Name of Work	Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.
Reference	EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Wet Mix Macadam
Date of Testing	30.05.2014

Result : Flakiness Index = **15.30%**

Elongation Index = **10.78%**

Result : Combined Flakiness & Elongation index **26.08%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous concrete is 30%

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Job No.:CECTC-GV-PMC-2014-15 Date: 30.05.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
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Name of Work	Providing and Laying HDPE Water Line in Brundavana Nagara Block-1 in JP Park, Ward No-17.
Reference	EE/RRND/Wo.No/217/2013-14 Dated: 05.02.2014
Technical Reference	IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	Wet Mix Macadam
Date of Testing	30.05.2014

Result : Flakiness Index = **14.32%**

Elongation Index = **9.65%**

Result : Combined Flakiness & Elongation index **23.97%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous concrete is 30%

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